

SEQUENCE PROTOCOL

(1) GENERAL INFORMATION:

(i) APPLICANT:

- (A) NAME: Boehringer Mannheim GmbH
- (B) ROAD: Sandhofer Strasse 112-132
- (C) CITY: Mannheim-Waldhof
- (E) Country: DE
- (F) ZIP CODE: 68305

(ii) TITLE OF INVENTION: New primers and probes for the detection of HIV

(iii) NUMBER OF SEQUENCES: 25

(iv) COMPUTER-READABLE FORM:

- (A) DATA CARRIER: Floppy disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release #1.0, version #1.30 (EPO)

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

AGGGAACCCA CTGCTTAAGC CTCAATAAAG CTTGCCTTGA GTGCTTCAAG TAGTGTGTGC 60
GC 62

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TTTGACTAGC GGAGGCTAGA AGGAGAGAGA TGGGTGCGAG AGCGTCAGTA TTAAGCGGGG 60
GA 62

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

ATTTTAAAAG CATTGGGACC AGCGGCTACA CTAGAAGAAA TGATGACAGC ATGTCAGGGA 60
GT 62

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

CTAAAGGAAG CTCTATTAGA TACAGGAGCA GATGATACAG TATTAGAAGA AATG 54

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

TGGAAACCAA AAATGATAGG GGGAATTGGA GGTTTTATCA AAGTAAGACA GTATGATCA 59

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 65 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

ACTGTACCAG TAAAATTAAA GCCAGGAATG GATGGCCCAA AAGTTAAACA ATGGCCATTG 60
ACAGA 65

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

CAATACATGG ATGATTTGTA TGTTAGGATCT GACTTAGAAA TAGGGCAGCA TAG

53

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

AAGGAAAAGG TCTATCTGGC ATGGGTACCA GCACACAAG GAATTGGAGG AAATGAACAA
GTAGATAAAT TAGTCAG

60

77

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

AAATAGTAGC CAGCTGTGAT AAATGTCAGC TAAAAGGAGA AGCCATGCAT GGACAAGTAG
ACTGTAG

60

67

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 59 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

CAGGAATTTG GAATTCCCTA CAATCCCCAA AGTCAAGGAG TAGTAGAATC TATGAATAA

59

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

AAAATTCAAA ATTTTCGGGT TTATTACAGG GACAGCAGAA ATCCACTTTG GAAAGGACCA 60
GCAAAGCTCC TCTGGAAAGG TGAAGGGGCA GTAGTAATAC A 101

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 62 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

AGGGATTATG GAAAACAGAT GGCAGGTGAT GATTGTGTGG CAAGTAGACA GGATGAGGAT 60
TA 62

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 97 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

TGGCAACTAG ATTGTACACA TTTAGAAGGA AAAGTTATCC TGGTAGCAGT TCATGTAGCC 60
AGTGGATATA TAGAAGCAGA AGTTATTCCA GCAGAAA 97

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: single strand
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

TACCTGGCAT GGGTACCAGC

(2) INFORMATION FOR SEQ ID NO: 15:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 26 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single strand
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GACTAATTTA TCTACTTGTT CATTTT

26

(2) INFORMATION FOR SEQ ID NO: 16:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single strand
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

CACACAAAGG AATTGGAG

18

(2) INFORMATION FOR SEQ ID NO: 17:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single strand
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

TTTGGGAATTC CCTACAATCC

20

(2) INFORMATION FOR SEQ ID NO: 18:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 26 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single strand
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

AATTCTTTAT TCATAGATTC TACTAC

26

(2) INFORMATION FOR SEQ ID NO: 19:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: single strand
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

CCCAAAGTCA AGGAG

15

(2) INFORMATION FOR SEQ ID NO: 20:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: single strand
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

TCAAAATTTT CGGGTTTATT ACAG

24

(2) INFORMATION FOR SEQ ID NO: 21:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: single strand
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

AGCTTTGCTG GTCCTTTCCA

20

(2) INFORMATION FOR SEQ ID NO: 22:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: single strand
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

GGACAGCAGA AATCCACTT

19

(2) INFORMATION FOR SEQ ID NO: 23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: single strand
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GCAACTAGAT TGTACACATT TAGAAG

26

(2) INFORMATION FOR SEQ ID NO: 24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: single strand
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

CTTCTATATA TCCACTGGCT AGATG

25

(2) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: single strand
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GAAAAGTTAT CCTGCTAGCA GTT

23

SEQUENCE LISTING

<110> Roche Diagnostics GmbH

<120> New primers and probes for the detection of HIV

<130> 18657pwomd

<140> PCT/EP99/08211

<141> 1999-10-29

<150> DE 19850186.2

<151> 1998-10-30

<160> 25

<170> PatentIn Ver. 2.1

<210> 1

<211> 62

<212> DNA

<213> HIV

<400> 1

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cc 62

<210> 2

<211> 62

<212> DNA

<213> HIV

<400> 2

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<210> 3

<211> 62

<212> DNA

<213> HIV

<400> 3

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gt 62

<210> 4
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<400> 4
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<210> 5
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 <212> DNA
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<400> 5
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<210> 6
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 <212> DNA
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<400> 6
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 acaga 65

<210> 7
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 <212> DNA
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<400> 7
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<210> 8
 <211> 77
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<211> 67
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actgtag 67

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caggaatttg gaattcccta caatccccaa agtcaaggag tagtagaatc tatgaataa 59

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<400> 11
aaaattcaaa attttcgggt ttattacagg gacagcagaa atccactttg gaaaggacca 60
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ta 62

<210> 13
<211> 97
<212> DNA
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<400> 13
tggcaactag attgtacaca tttagaagga aaagttatcc tggtagcagt tcatgtagcc 60
agtggatata tagaagcaga agttattcca gcagaaa 97

<210> 14
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<212> DNA
<213> Künstliche Sequenz

<220>

<223> Beschreibung der künstlichen Sequenz: Primer GH
A2F

<400> 14
tacctggcat gggtaccagc

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<210> 15
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<212> DNA
<213> Künstliche Sequenz

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<223> Beschreibung der künstlichen Sequenz: Primer GH
A2R

<400> 15
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26

<210> 16
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<212> DNA
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<223> Beschreibung der künstlichen Sequenz: Primer GH
A2P

<400> 16
cacacaaagg aattggag

18

<210> 17
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<212> DNA
<213> Künstliche Sequenz

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<223> Beschreibung der künstlichen Sequenz: Primer GH
A3F

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<210> 18
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A3R

<400> 18
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A3P

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15

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A4F

<400> 20
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24

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A4R

<400> 21

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<213> Künstliche Sequenz

<220>

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<210> 24

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<212> DNA

<213> Künstliche Sequenz

<220>

<223> Beschreibung der künstlichen Sequenz: Primer GH
A6R

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<210> 25

<211> 23

<212> DNA

<213> Künstliche Sequenz

<220>

<223> Beschreibung der künstlichen Sequenz: Primer GH
A6P

<400> 25

gaaaagttat cctggttagca gtt

23